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**Cooke et al.**

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(54) **NON-COMMAND, VISUAL INTERACTION  
SYSTEM FOR WATCHSTATIONS**

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345/7; 345/8; 345/629**

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(57) **ABSTRACT**

The non-command, visual interaction system provided for a shipboard watchstation has three major subsystems, an operator-locating subsystem, a visual capture subsystem, and a computer-operated watchstation. The operator-locating subsystem uses an overhead infrared tracker with location tracking hardware to identify operator presence and operator head location. An eye-tracking camera, with eye-tracking hardware monitors the watch operators visual scan, gaze location and dwell time, blink rate and pupil size. An algorithm determines when additional cueing of the operator should be made based on eye-monitoring parameters.

**18 Claims, 2 Drawing Sheets**

